

ORIGINAL

BEFORE THE
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON D.C.

In re:)
)
AMENDMENT OF SECTION 73.202(b)) RM-
TABLE OF ASSIGNMENTS) MM Docket No.
FM BROADCAST STATIONS)
ASHLAND, WISCONSIN)

RECEIVED

OCT 16 1998

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

TO: Chief, Allocations Branch
Policy and Rules Division

PETITION FOR RULEMAKING

The State of Wisconsin -Educational Communications Board ("WECB"), by its attorneys and pursuant to Section 1.401 of the Commission's Rules, requests that the Commission institute a rulemaking proceeding to amend Section 73.202(b) of the Rules to allot Channel 275A to Ashland, Wisconsin, and reserve it for noncommercial educational use. In support of this request, WECB submits the following:

Background

WECB operates a state public radio and television network currently consisting of eleven noncommercial educational radio stations and five noncommercial educational television stations. WECB operates under the auspices of a state mandate requiring it to provide educational services, including noncommercial educational broadcast programming services, to the people of the State of Wisconsin. Through the allocation requested in this petition, WECB seeks to further this mandate through the provision of first public radio service to Ashland, Wisconsin.

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No Reserved Band FM Channels Are Available for Use at Ashland

No reserved band FM channels are available for use at Ashland, Wisconsin. WECB performed a detailed channel-by-channel, review of the reserved noncommercial educational FM channels, Channels 201 through 220 in search of a suitable frequency serving Ashland, Wisconsin. As demonstrated in the attached Engineering Report, use of these channels would cause interference to the reception of Channel 6 Television Station, KBJR-TV, Superior, Wisconsin, in and around Ashland, Wisconsin. Accordingly, no reserved band channel can be allotted to Ashland in compliance with the requirements of Section 73.525 of the Commission's Rules. The Commission has reserved a channel outside the reserved band for noncommercial use when reserved band channels were not available because of potential interference to operation of a Channel 6 television station. *See e.g., Report and Order* in MM Docket No. 91-53, (released July 9, 1991); *Comobabi, Arizona*, 47 Fed. Reg. 32715 (released July 29, 1982); *Burlington and Newport, Vermont*, 45 RR 2d 786 (1979).

Channel 275A Should Be Allotted to Ashland

The allocation of Channel 275A to Ashland will comply with the Commission's Rules and Regulations. As demonstrated in the attached Engineering Report, the proposed assignment of Channel 275A will comply with the minimum mileage separation requirements of Section 73.207 and 73.215 of the Commission's Rules. The proposed assignment can also be made without a site restriction.

Furthermore, Ashland is designated in the 1990 U.S. Census Report as an incorporated city in Wisconsin with a population of 8,695 persons. *See Rand McNally Commercial Atlas &*

Marketing Guide, page 566 (129th ed. 1998). Accordingly, Ashland represents a community within the meaning of the Commission's rules and policies.

The Public Interest Would Be Better Served Through Reservation of the Channel 275A at Ashland

Allotment and reservation of Channel 275A for noncommercial use at Ashland would serve the public interest. Use of this channel would permit WECB to provide a first local public radio service to Ashland, Wisconsin. In addition, as the attached Engineering Report shows, no existing noncommercial educational FM station provides a predicted 60 dBu signal to any part of Ashland. Accordingly, the allotment and reservation of Channel 275A represents the only means of providing Ashland with a local noncommercial educational FM channel. By contrast, Ashland is presently served by five full-time commercial radio stations, three of which are licensed to the Ashland community. Furthermore, other commercial channels remain available for assignment to the Ashland, Wisconsin community or surrounding communities.

Congress has mandated that the Commission give high priority to the provision of public telecommunications services to all residents of the United States. See Section 396(a) of the Communications Act of 1934, as amended. Because Ashland currently has local commercial radio service, but no local noncommercial educational radio service, the Commission should allot Channel 275A to Ashland and reserve it for noncommercial use.

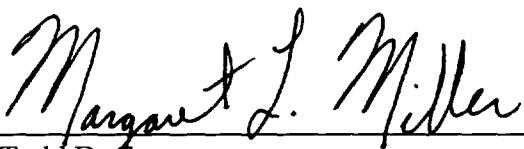
Conclusion

Should the Commission assign Channel 275A to Ashland, Wisconsin, WECB intends to apply for the channel and, if authorized, promptly to construct a new noncommercial educational FM station in Ashland. Absent the allocation of Channel 275A, Ashland will remain without local noncommercial educational FM service. There are no suitable channels in the

noncommercial educational band available for use at Ashland; use of Channel 275A is the only means of providing Ashland with reserved noncommercial educational FM service. Therefore, the public interest would be served through allocation of Channel 275A to Ashland and its reservation for noncommercial educational use.

Respectfully submitted,

STATE OF WISCONSIN-EDUCATIONAL
COMMUNICATIONS BOARD

By: 

Todd D. Gray
Margaret L. Miller
Christine J. Newcomb

Its Attorneys

Dow, Lohnes & Albertson, PLLC
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Washington, D.C. 20036
(202) 776-2000

October 16, 1998



**WISCONSIN EDUCATIONAL
COMMUNICATIONS BOARD**

SERVING WISCONSIN THROUGH EDUCATIONAL TELECOMMUNICATIONS
THOMAS L. FLETEMEYER, EXECUTIVE DIRECTOR

**The State of Wisconsin - Educational Communications Board ("WECB") intends
to apply for and prosecute an application for Channel *275A at Ashland,
Wisconsin, if allotted as a reserved channel.**

By: *T. L. Flettemeyer*

Title: Executive Director

Date: *9/25/98*



Education Services ■ Wisconsin Public Radio ■ Wisconsin Public Television

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ENGINEERING EXHIBIT

**PETITION FOR RULE MAKING TO ASSIGN
AN FM CHANNEL TO ASHLAND, WISCONSIN
AND RESERVE IT FOR NONCOMMERCIAL USE**

**STATE OF WISCONSIN
EDUCATIONAL COMMUNICATIONS BOARD**

SEPTEMBER 1998

Prepared by:

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ENGINEERING STATEMENT

This Engineering Statement and the attached figures have been prepared by B. Benjamin Evans of Evans Associates, Consulting Communications Engineers in Thiensville, Wisconsin, on behalf of the State of Wisconsin Educational Communications Board ("WECB"). This exhibit supports a petition for rule making by WECB, requesting that FM Channel 275A be assigned to Ashland, Wisconsin, and reserved for non-commercial educational use.

The community of Ashland is located in Ashland County in northwestern Wisconsin. Ashland, with a 1990 U.S. Census population of 8,695 persons, is the most populous Wisconsin community within a 50-mile radius. The instant FM channel, if assigned as a non-commercial channel, would provide Ashland with its first non-commercial educational broadcast transmission service.

As a result of the frequency search conducted by this engineer, it has been determined that Channel 275A may be assigned to Ashland, Wisconsin, without conflicting with any existing FM assignments or proposed assignments that are known by the petitioner. Therefore, it is proposed that §73.202(b) of the FCC Rules and Regulations be amended in the following manner:

<u>Community</u>	<u>Channel</u>
Ashland, Wisconsin	*275A

It is the petitioner's intention to apply for a construction permit to operate on the FM assignment proposed herein, if it is assigned.

The reference point coordinates of Ashland are:

N. 46°-35'-24"; W. 90°-53'-00"

The assignment of Channel 275A to Ashland will meet all minimum distance spacing separation requirements under the FCC Rules without a site restriction.

As will be shown herein, WECB believes that good cause exists for reserving a commercial channel for non-commercial use at Ashland.



TV CHANNEL 6 PRECLUDES THE USE OF RESERVED NON-COMMERCIAL EDUCATIONAL CHANNELS AT ASHLAND

None of the Channels 201 through 220 can be used for non-commercial operation at Ashland because of the potential interference to TV Channel 6 station KBJR-TV in Superior, Wisconsin, let alone other FM stations. Figure 1 is a map showing the predicted Grade B (47 dBu) contour of KBJR-TV. This contour extends 17.3 kilometers beyond the Ashland reference point. As will be demonstrated herein, a reserved channel facility that proposes to serve Ashland cannot avoid prohibited contour overlap with KBJR-TV.

Figure 4 is an allocation study of each of the twenty reserved educational FM channels. Detailed below is a channel-by-channel analysis of a proposed Class A operation in Ashland.

Channel 201 is precluded by a proposed new FM on Channel 201C2 (BPED-971211MN) in Wentworth, WI, and TV Channel 6 station KBJR-TV in Superior, WI.

Channel 202 is precluded by KBJR-TV in Superior, WI.

Channel 203 is precluded by KBJR-TV in Superior, WI.

Channel 204 is precluded by WOJB, Channel 205C1, in Reserve, WI, and KBJR-TV in Superior, WI.

Channel 205 is precluded by WOJB in Reserve, WI, and KBJR-TV in Superior, WI.

Channel 206 is precluded by WOJB in Reserve, WI, and KBJR-TV in Superior, WI.

Channel 207 is precluded by WNCB, Channel 207A, in Duluth, MN, and KBJR-TV in Superior, WI.

Channel 208 is precluded by WHSA, Channel 210C2, in Brule, WI, and KBJR-TV in Superior, WI.

Channel 209 is precluded by WHSA in Brule, WI, and KBJR-TV in Superior, WI.

Channel 210 is precluded by WHSA in Brule, WI, and KBJR-TV in Superior, WI.



A S S O C I A T E S

Page 3

Channel 211 is precluded by WHSA in Brule, WI, and KBJR-TV in Superior, WI.

Channel 212 is precluded by WHSA in Brule, WI, WHBM-FM, Channel 212C2, in Park Falls, WI, and KBJR-TV in Superior, WI.

Channel 213 is precluded by KDNI, Channel 213C3, in Duluth, MN, and KBJR-TV in Superior, WI.

Channel 214 is precluded by WTIP, Channel 214C2, in Grand Marais, MN, and KBJR-TV in Superior, WI.

Channel 215 is precluded by KBJR-TV in Superior, WI.

Channel 216 is precluded by WGGL-FM, Channel 216C1, in Houghton, MI, KUWS, Channel 217C1, in Superior, WI, and KBJR-TV in Superior, WI.

Channel 217 is precluded by KUWS in Superior, WI, a proposed new FM on Channel 220C3 (BPED-960626MC) in Odanah, WI, and KBJR-TV in Superior, WI.

Channel 218 is precluded by BPED-960626MC in Odanah, WI, and KBJR-TV in Superior, WI.

Channel 219 is precluded by WXPB, Channel 219C1, in Rhinelander, WI, BPED-960626MC in Odanah, WI, and KBJR-TV in Superior, WI.

Channel 220 is precluded by BPED-960626MC in Odanah, WI, and KBJR-TV in Superior, WI.

Laying aside Channel 6 concerns, the best channels seem to be Channels 202, 203 and 215. In the case of Channel 215, the following Channel 6 analysis would apply: The Grade B service contour of KBJR-TV extends 114.0 kilometers in the direction of Ashland. Using Section 73.535 of the FCC Rules, and adding 6 dB for antenna directivity, the corresponding Channel 215 interference contour would be 80 dBu. The distance to the 80 dBu interference contour for a 3 KW, 100 meter Class A station is 7.6 kilometers. Thus, the stations would have to be located at least 121.6 kilometers apart. This requirement would place the antenna site for Channel 215 at least 24.9 kilometers from Ashland. Since the 60 dBu service contour would extend only 24.2 kilometers, less than half of Ashland would be served by the FM facility. Channel 215 is the best-case



Page 4

scenario; on Channels 202 and 203, the site restrictions would be even more severe because the interfering contours would extend further out.

Thus, any reserved channel from 201 to 220 which would otherwise be available under Section 73.509 of the FCC rules, is precluded by the TV Channel 6 Grade B contour protection requirements of Section 73.525.

Therefore, it appears that the only channel that would allow a non-commercial educational FM station to be assigned to Ashland and would properly serve that community is on the commercial band.

ASHLAND DOES NOT PRESENTLY RECEIVE SERVICE FROM ANY NON-COMMERCIAL FULL BROADCAST STATION

Ashland does not have any locally-assigned non-commercial broadcast stations, nor do any existing non-commercial broadcast FM stations provide a predicted 60 dBu signal to any part of Ashland. Figure 2 demonstrates that the 60 dBu signals of existing non-commercial stations all fall short of Ashland. The allotment of Channel *275A will provide Ashland with its very first non-commercial radio broadcast transmission and reception service.

ASHLAND IS ALREADY SERVED BY SEVERAL COMMERCIAL RADIO SERVICES AND THERE ARE OTHER FM CHANNELS AVAILABLE FOR ADDITIONAL COMMERCIAL ASSIGNMENTS

Ashland is presently served by five fulltime commercial radio stations, three of which are assigned to Ashland. They are: WATW(AM), Ashland, WI; WBSZ(FM), Ashland, WI; WJJH(FM), Ashland, WI; WEGZ(FM), Washburn, WI; WIMI(FM), Ironwood, MI. Figure 3 demonstrates that the four FM stations serve Ashland with a predicted 60 dBu signal.

Should there be a future interest in additional commercial radio services, there are other available FM channels that can be allotted to Ashland.

Channel 231A, 265A or 267A could be assigned to Ashland at the city reference coordinates. Channel 249A could be assigned with a site restriction of 9 kilometers north of Ashland, and Channel 268A could be assigned with a site restriction of 9 kilometers east of Ashland.



Page 5

Thus, even if Channel *275A were assigned to Ashland, a total of three other non-conflicting channels could be allotted there for commercial Class A operation.

CONCLUSION

In view of the above, WECB believes that the assignment of Channel 275A to Ashland, Wisconsin as a non-commercial educational channel is the only viable way to provide a local non-commercial radio service to Ashland, and that this assignment would not shut the door to future commercial FM assignments to this area.

ATTACHED FIGURES:

- Figure 1 - - - - Map Showing Predicted KBJR-TV Grade B Contour
- Figure 2 - - - - Predicted Coverage Areas of Existing NCE-FM Stations
- Figure 3 - - - - Predicted Coverage Areas of Existing Commercial FM Stations
- Figure 4 - - - - Reserved Educational FM Band Allocation Studies

AFFIDAVIT

COUNTY OF OZAUKEE

SS:

STATE OF WISCONSIN }

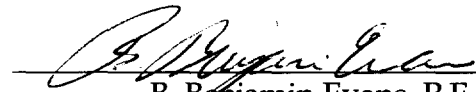
B. BENJAMIN EVANS, being duly sworn upon oath deposes and says:

That his qualifications are a matter of record with the Federal Communications Commission;

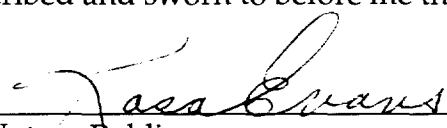
That he is a Consulting TeleCommunications Engineer, a Registered Professional Engineer in the State of Wisconsin, and a partner in the firm of Evans Associates;

That this firm has been retained by the State of Wisconsin Educational Communications Board to prepare this engineering exhibit;

That he has either prepared or directly supervised the preparation of all technical information contained in this engineering exhibit, and that the facts stated in this exhibit are true to the best of his knowledge, except statements that are herein stated to be based on information or belief, and as to such statements he believes them to be true.


B. Benjamin Evans, P.E.

Subscribed and sworn to before me this 14th day of September, 1998.


Notary Public

My Commission expires

Sept 24, 2000

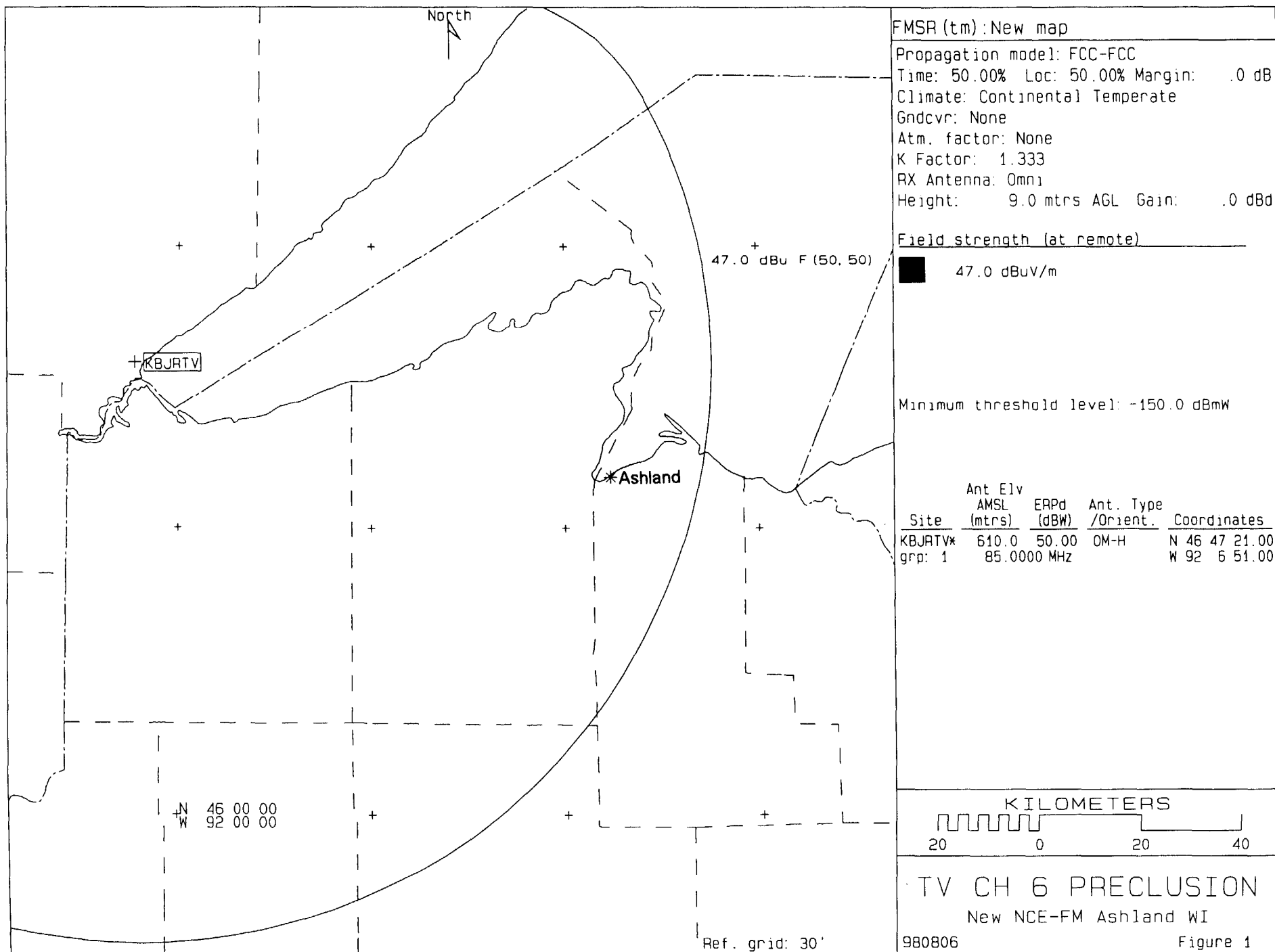
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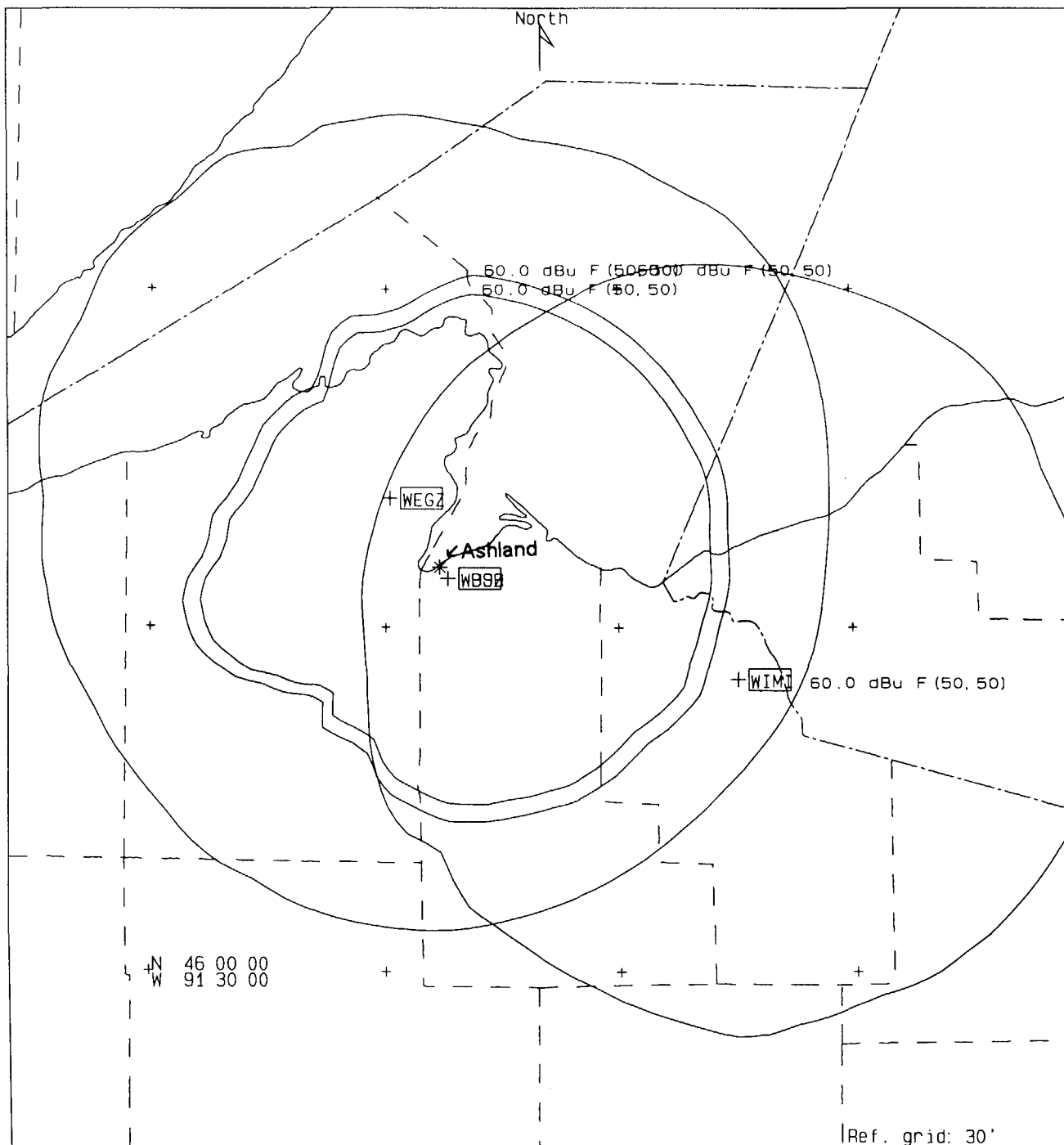
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FMSR (tm): New map

Propagation model: FCC-FCC

Time: 50.00% Loc: 50.00% Margin: .0 dB

Climate: Continental Temperate

Gndcvr: None

Atm. factor: None

K Factor: 1.333

RX Antenna: Omni

Height: 9.0 mtrs AGL Gain: .0 dBd

Field strength (at remote)



60.0 dBuV/m

Minimum threshold level: -150.0 dBmW

Site	Ant Elv AMSL (mtrs)	ERPd (dBW)	Ant. Type /Orient.	Coordinates
WBSZ *	296.0	48.51	OM-H	N 46 34 25.00
grp: 1	93.3000 MHz			W 90 51 56.00
WJH	296.0	46.99	OM-H	N 46 34 25.00
grp: 2	96.7000 MHz			W 90 51 56.00
WIMI	624.0	50.00	OM-H	N 46 25 25.00
grp: 2	99.7000 MHz			W 90 14 53.00
WEGZ	518.0	50.00	OM-H	N 46 41 31.00
grp: 2	105.9000 MHz			W 90 59 27.01



COMMERCIAL FM COVERAGE

Ashland, WI

980806

Figure 3

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 201A (88.1 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			
NEW		Ironwood	201A	0.2	61		46 27 23	104.9 $^{\circ}$	56.9	
APP	MI	BPED980521MG	VCI America, Inc.				90 10 4	285.4 $^{\circ}$		
Des. NEW		60 dBu -	9.6 km	Undes. WECBAS	40 dBu -	76.7 km		-29.4#	86.3	
Undes. NEW		40 dBu -	32.2 km	Des. WECBAS	60 dBu -	24.2 km		+0.5	56.4	
NEW		Wentworth	201C2	25.0	109		46 28 14	262.0 $^{\circ}$	90.6	
APP	WI	BPED971211MN	American Family Asso				92 3 6	81.1 $^{\circ}$		
Des. NEW		60 dBu -	40.4 km	Undes. WECBAS	40 dBu -	76.7 km		-26.5*	117.1	
Undes. NEW		40 dBu -	115.3 km	Des. WECBAS	60 dBu -	24.2 km		-48.9#	139.5	
WHWC		Menomonie	202C	100.	319	DA	45 2 47	204.2 $^{\circ}$	187.7	166.0
LIC	WI	BLED960829KA	State of Wisconsin-E				91 51 42	23.5 $^{\circ}$	+21.7	
KBJRTV		SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.				92 6 51	102.8 $^{\circ}$		
Des. KBJRTV		47 dBu -	104.3 km	Undes. WECBAS	54.0 dBu -	36.5 km		-44.1#	140.8	
Des. KBJRTV		68 dBu -	54.8 km	Undes. WECBAS	63.4 dBu -	20.7 km		+21.2	75.5	

>> # SEVERE SIGNAL OVERLAP; CHANNEL MAY NOT BE PRACTICABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 202A (88.3 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE			LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km	

NEW	Ironwood	201A	0.2	61		46 27 23	104.9 $^{\circ}$		56.9	
APP	MI	BPED980521MG	>VCY America, Inc.			90 10 4	285.4 $^{\circ}$			
Des. NEW		60 dBu -	9.6 km	Undes. WECBAS	54 dBu -	36.5 km		+10.8	46.1	
Undes. NEW		54 dBu -	13.7 km	Des. WECBAS	60 dBu -	24.2 km		+19.0	37.9	

NEW	Wentworth	201C2	25.0	109		46 28 14	262.0 $^{\circ}$		90.6	
APP	WI	BPED971211MN	>American Family Asso			92 3 6	81.1 $^{\circ}$			
Des. NEW		60 dBu -	40.4 km	Undes. WECBAS	54 dBu -	36.5 km		+13.7	76.9	
Undes. NEW		54 dBu -	62.3 km	Des. WECBAS	60 dBu -	24.2 km		+4.1	86.5	

WHWC	Menomonie	202C	100.	319	DA	45 2 47	204.2 $^{\circ}$		187.7	
LIC	WI	BLED960829KA	>State of Wisconsin-E			91 51 42	23.5 $^{\circ}$			
Des. WHWC		60 dBu -	73.8 km	Undes. WECBAS	40 dBu -	76.7 km		+37.2	150.5	
Undes. WHWC		40 dBu -	174.1 km	Des. WECBAS	60 dBu -	24.2 km		-10.6*	198.3	

WHWC	Menomonie	202C1	71.	320	DA	45 2 49	204.2 $^{\circ}$		187.6	
CP	WI	BPED971103IA	>State of Wisconsin-E			91 51 47	23.5 $^{\circ}$			
Des. WHWC		60 dBu -	70.4 km	Undes. WECBAS	40 dBu -	76.7 km		+40.5	147.1	
Undes. WHWC		40 dBu -	165.7 km	Des. WECBAS	60 dBu -	24.2 km		-2.3*	189.9	

NEW	Superior	203A	1.0	87		46 47 21	283.7 $^{\circ}$		96.7	73.0
APP	WI	BPED971211MC	>State of Wisconsin E			92 6 51	102.8 $^{\circ}$		+23.7	

WOJB	Reserve	205C1	100.	184		45 52 16	204.3 $^{\circ}$		87.6	76.0
LIC	WI	BLED820428AH	>Lac Courte Oreilles			91 20 56	24.0 $^{\circ}$		+11.6	

KBJRTV	SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$		96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.			92 6 51	102.8 $^{\circ}$			
Des. KBJRTV		47 dBu -	104.3 km	Undes. WECBAS	56.8 dBu -	30.7 km		-38.3#	135.0	
Des. KBJRTV		68 dBu -	54.8 km	Undes. WECBAS	65.1 dBu -	18.6 km		+23.3	73.4	

>> # SEVERE SIGNAL OVERLAP; CHANNEL MAY NOT BE PRACTICABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 203A (88.5 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE				LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km
NEW		Ironwood	201A	0.2	61		46 27 23	104.9 $^{\circ}$	56.9	38.0
APP	MI	BPED980521MG>	VCY America, Inc.				90 10 4	285.4 $^{\circ}$	+18.9	
NEW		Wentworth	201C2	25.0	109		46 28 14	262.0 $^{\circ}$	90.6	62.0
APP	WI	BPED971211MN>	American Family Asso				92 3 6	81.1 $^{\circ}$	+28.6	
WHWC		Menomonie	202C	100.	319	DA	45 2 47	204.2 $^{\circ}$	187.7	166.0
LIC	WI	BLED960829KA>	State of Wisconsin-E				91 51 42	23.5 $^{\circ}$	+21.7	
NEW		Superior	203A	1.0	87		46 47 21	283.7 $^{\circ}$	96.7	
APP	WI	BPED971211MC>	State of Wisconsin E				92 6 51	102.8 $^{\circ}$		
Des. NEW		60 dBu -	17.2 km	Undes. WECBAS	40 dBu -	76.7 km			+2.8	93.9
Undes. NEW		40 dBu -	58.5 km	Des. WECBAS	60 dBu -	24.2 km			+14.0	82.7
WOJB		Reserve	205C1	100.	184		45 52 16	204.3 $^{\circ}$	87.6	82.0
LIC	WI	BLED820428AH>	Lac Courte Oreilles				91 20 56	24.0 $^{\circ}$	+5.6	
KBJRTV		SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.				92 6 51	102.8 $^{\circ}$		
Des. KBJRTV		47 dBu -	104.3 km	Undes. WECBAS	59.5 dBu -	26.1 km			-33.7#	130.4
Des. KBJRTV		68 dBu -	54.8 km	Undes. WECBAS	66.9 dBu -	16.6 km			+25.3	71.4

>> # SEVERE SIGNAL OVERLAP; CHANNEL MAY NOT BE PRACTICABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 204A (88.7 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			
NEW		Ironwood	201A	0.2	61		46 27 23	104.9 $^{\circ}$	56.9	32.0
APP	MI	BPED980521MG	>VCY America, Inc.				90 10 4	285.4 $^{\circ}$	+24.9	
NEW		Superior	203A	1.0	87		46 47 21	283.7 $^{\circ}$	96.7	73.0
APP	WI	BPED971211MC	>State of Wisconsin E				92 6 51	102.8 $^{\circ}$	+23.7	
NEW		Esko	204A	0.45	29		46 42 22	277.1 $^{\circ}$	113.9	
APP	MN	BPED970331MA	>Lincoln High School				92 21 44	96.0 $^{\circ}$		
Des. NEW		60 dBu -	8.3 km	Undes. WECBAS	40 dBu -	76.7 km			+28.9	85.0
Undes. NEW		40 dBu -	27.5 km	Des. WECBAS	60 dBu -	24.2 km			+62.2	51.7
WOJB		Reserve	205C1	100.	184		45 52 16	204.3 $^{\circ}$	87.6	
LIC	WI	BLED820428AH	>Lac Courte Oreilles				91 20 56	24.0 $^{\circ}$		
Des. WOJB		60 dBu -	62.3 km	Undes. WECBAS	54 dBu -	36.5 km			-11.2*	98.8
Undes. WOJB		54 dBu -	92.5 km	Des. WECBAS	60 dBu -	24.2 km			-29.1X	116.7
KBJRTV		SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.				92 6 51	102.8 $^{\circ}$		
Des. KBJRTV		47 dBu -	104.3 km	Undes. WECBAS	62.3 dBu -	22.1 km			-29.7#	126.4
Des. KBJRTV		68 dBu -	54.8 km	Undes. WECBAS	69.1 dBu -	14.5 km			+27.4	69.3

>> X CHANNEL NOT SUITABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 205A (88.9 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			

WOJB	Reserve		205C1	100.	184		45 52 16	204.3 $^{\circ}$	87.6	
LIC	WI	BLED820428AH	>Lac Courte Oreilles				91 20 56	24.0 $^{\circ}$		
Des. WOJB	60 dBu -	62.3 km	Undes. WECBAS	40 dBu -	76.7 km				-51.4X	139.0
Undes. WOJB	40 dBu -	159.9 km	Des. WECBAS	60 dBu -	24.2 km				-96.5X	184.1

KBJRTV	SUPERIOR		6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.				92 6 51	102.8 $^{\circ}$		
Des. KBJRTV	47 dBu -	104.3 km	Undes. WECBAS	65.1 dBu -	18.6 km				-26.2*	122.9
Des. KBJRTV	68 dBu -	54.8 km	Undes. WECBAS	71.3 dBu -	12.7 km				+29.2	67.5

>> X CHANNEL NOT SUITABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 206A (89.1 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			
WOJB		Reserve	205C1	100.	184		45 52 16	204.3 $^{\circ}$	87.6	
LIC	WI	BLED820428AH	>Lac Courte Oreilles				91 20 56	24.0 $^{\circ}$		
Des. WOJB		60 dBu -	62.3 km	Undes. WECBAS	54 dBu -	36.5 km			-11.2*	98.8
Undes. WOJB		54 dBu -	92.5 km	Des. WECBAS	60 dBu -	24.2 km			-29.1X	116.7
WNCB		Duluth	207A	2.4	145		46 47 14	283.6 $^{\circ}$	96.7	73.0
CP	MN	BPED980304ID	>North-Central Christ				92 6 53	102.7 $^{\circ}$	+23.7	
WNCB		Duluth	207A	2.4	145		46 47 14	283.6 $^{\circ}$	96.7	73.0
LIC	MN	BLED930712KA	>North-Central Christ				92 6 53	102.7 $^{\circ}$	+23.7	
KBJRTV		SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.				92 6 51	102.8 $^{\circ}$		
Des. KBJRTV		47 dBu -	104.3 km	Undes. WECBAS	69.5 dBu -	14.2 km			-21.8*	118.5
Des. KBJRTV		68 dBu -	54.8 km	Undes. WECBAS	70.5 dBu -	13.3 km			+28.6	68.1

>> X CHANNEL NOT SUITABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 207A (89.3 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility

Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			

WOJB	Reserve	205C1	100.	184	45 52 16	204.3 $^{\circ}$	87.6	82.0		
LIC	WI	BLD820428AH	>Lac Courte Oreilles	91 20 56	24.0 $^{\circ}$	+5.6				

WNCB	Duluth	207A	2.4	145	46 47 14	283.6 $^{\circ}$	96.7			
CP	MN	BPED980304ID	>North-Central Christ	92 6 53	102.7 $^{\circ}$					
Des. WNCB	60 dBu -	27.2 km	Undes. WECBAS	40 dBu -	76.7 km	-7.2*	103.9			
Undes. WNCB	40 dBu -	80.0 km	Des. WECBAS	60 dBu -	24.2 km	-7.5*	104.2			

WNCB	Duluth	207A	2.4	145	46 47 14	283.6 $^{\circ}$	96.7			
LIC	MN	BLD930712KA	>North-Central Christ	92 6 53	102.7 $^{\circ}$					
Des. WNCB	60 dBu -	27.2 km	Undes. WECBAS	40 dBu -	76.7 km	-7.2*	103.9			
Undes. WNCB	40 dBu -	80.0 km	Des. WECBAS	60 dBu -	24.2 km	-7.5*	104.2			

WWSA	Brule	210C2	38.	168	46 27 59	255.5 $^{\circ}$	54.1			
LIC	WI	BLD1040	>State of Wisconsin E	91 33 56	75.0 $^{\circ}$					
Des. WWSA	60 dBu -	51.8 km	Undes. WECBAS	100 dBu -	2.3 km	+0.0	54.1			
Undes. WWSA	100 dBu -	5.8 km	Des. WECBAS	60 dBu -	24.2 km	+24.1	30.0			

KBJRTV	SUPERIOR	6TV-2	100	308	46 47 21	283.7 $^{\circ}$	96.7			
LIC	WI	BLCT2419	>KBJR LICENSE, INC.	92 6 51	102.8 $^{\circ}$					
Des. KBJRTV	47 dBu -	104.3 km	Undes. WECBAS	73.3 dBu -	11.3 km	-18.9*	115.6			
Des. KBJRTV	68 dBu -	54.8 km	Undes. WECBAS	70.5 dBu -	13.3 km	+28.6	68.1			

>> * SIGNAL OVERLAP; REDUCTION, RELOCATION OR DIRECTIONALITY MAY BE POSSIBLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 208A (89.5 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE				LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km
WOJB		Reserve	205C1	100.	184		45 52 16	204.3 $^{\circ}$	87.6	76.0
LIC	WI	BLED820428AH	>Lac Courte Oreilles				91 20 56	24.0 $^{\circ}$	+11.6	
WNCB		Duluth	207A	2.4	145		46 47 14	283.6 $^{\circ}$	96.7	73.0
CP	MN	BPED980304ID	>North-Central Christ				92 6 53	102.7 $^{\circ}$	+23.7	
WNCB		Duluth	207A	2.4	145		46 47 14	283.6 $^{\circ}$	96.7	73.0
LIC	MN	BLED930712KA	>North-Central Christ				92 6 53	102.7 $^{\circ}$	+23.7	
WHSA		Brule	210C2	38.	168		46 27 59	255.5 $^{\circ}$	54.1	
LIC	WI	BLED1040	>State of Wisconsin E				91 33 56	75.0 $^{\circ}$		
Des. WHSA		60 dBu -	51.8 km	Undes. WECBAS	80 dBu -		7.6 km		-5.3*	59.4
Undes. WHSA		80 dBu -	19.4 km	Des. WECBAS	60 dBu -		24.2 km		+10.5	43.6
KBJRTV		SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.				92 6 51	102.8 $^{\circ}$		
Des. KBJRTV		47 dBu -	104.3 km	Undes. WECBAS	73.3 dBu -		11.3 km		-18.9*	115.6
Des. KBJRTV		68 dBu -	54.8 km	Undes. WECBAS	70.5 dBu -		13.3 km		+28.6	68.1

>> * SIGNAL OVERLAP; REDUCTION, RELOCATION OR DIRECTIONALITY MAY BE POSSIBLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 209A (89.7 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			
WHSA	Brule		210C2	38.	168		46 27 59	255.5 $^{\circ}$	54.1	
LIC	WI	BLED1040	>State of Wisconsin	E	91 33 56		75.0 $^{\circ}$			
Des. WHSA	60 dBu	-	51.8 km	Undes. WECBAS	54 dBu	-	36.5 km	-34.2X	88.3	
Undes. WHSA	54 dBu	-	76.9 km	Des. WECBAS	60 dBu	-	24.2 km	-47.0X	101.1	
KBJRTV	SUPERIOR		6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.		92 6 51		102.8 $^{\circ}$			
Des. KBJRTV	47 dBu	-	104.3 km	Undes. WECBAS	73.3 dBu	-	11.3 km	-18.9*	115.6	
Des. KBJRTV	68 dBu	-	54.8 km	Undes. WECBAS	70.5 dBu	-	13.3 km	+28.6	68.1	

>> X CHANNEL NOT SUITABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 210A (89.9 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			
WHSA	Brule	210C2	38. 168	46 27 59	255.5 $^{\circ}$	54.1				
LIC	WI	BLED1040	>State of Wisconsin E	91 33 56	75.0 $^{\circ}$					
Des. WHSA	60 dBu -	51.8 km	Undes. WECBAS	40 dBu -	76.7 km	-74.4X	128.5			
Undes. WHSA	40 dBu -	134.0 km	Des. WECBAS	60 dBu -	24.2 km	-104.1X	158.2			
WHBMFM	Park Falls	212C2	17.5 222	45 56 43	146.6 $^{\circ}$	85.7	62.0			
LIC	WI	BLED881108KA	>State of Wisconsin E	90 16 28	327.1 $^{\circ}$	+23.7				
KBJRTV	SUPERIOR	6TV-2	100 308	46 47 21	283.7 $^{\circ}$	96.7				
LIC	WI	BLCT2419	>KBJR LICENSE, INC.	92 6 51	102.8 $^{\circ}$					
Des. KBJRTV	47 dBu -	104.3 km	Undes. WECBAS	73.3 dBu -	11.3 km	-18.9*	115.6			
Des. KBJRTV	68 dBu -	54.8 km	Undes. WECBAS	70.5 dBu -	13.3 km	+28.6	68.1			

>> X CHANNEL NOT SUITABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 211A (90.1 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			

WHSA	Brule	210C2	38.	168	46 27 59	255.5 $^{\circ}$	54.1			
LIC	WI	BLED1040	>State of Wisconsin E			91 33 56	75.0 $^{\circ}$			
Des. WHSA	60 dBu -	51.8 km	Undes. WECBAS	54 dBu -	36.5 km	-34.2K	88.3			
Undes. WHSA	54 dBu -	76.9 km	Des. WECBAS	60 dBu -	24.2 km	-47.0K	101.1			

WHBMFM	Park Falls	212C2	17.5	222	45 56 43	146.6 $^{\circ}$	85.7			
LIC	WI	BLED881108KA	>State of Wisconsin E			90 16 28	327.1 $^{\circ}$			
Des. WHBMFM	60 dBu -	49.7 km	Undes. WECBAS	54 dBu -	36.5 km	-0.5*	86.2			
Undes. WHBMFM	54 dBu -	73.3 km	Des. WECBAS	60 dBu -	24.2 km	-11.8*	97.5			

KBJRTV	SUPERIOR	6TV-2	100	308	46 47 21	283.7 $^{\circ}$	96.7			
LIC	WI	BLCT2419	>KBJR LICENSE, INC.			92 6 51	102.8 $^{\circ}$			
Des. KBJRTV	47 dBu -	104.3 km	Undes. WECBAS	73.3 dBu -	11.3 km	-18.9*	115.6			
Des. KBJRTV	68 dBu -	54.8 km	Undes. WECBAS	70.5 dBu -	13.3 km	+28.6	68.1			

>> X CHANNEL NOT SUITABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 212A (90.3 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI ϕ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	ϕ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE			LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km	
WHSA	Brule	210C2	38.	168		46 27 59	255.5 $^{\circ}$	54.1		
LIC	WI	BLD1040	>State of Wisconsin			E 91 33 56	75.0 $^{\circ}$			
Des. WHSA	60 dBu -	51.8 km	Undes. WECBAS	80 dBu -	7.6 km			-5.3*	59.4	
Undes. WHSA	80 dBu -	19.4 km	Des. WECBAS	60 dBu -	24.2 km			+10.5	43.6	
WHBMFM	Park Falls	212C2	17.5	222		45 56 43	146.6 $^{\circ}$	85.7		
LIC	WI	BLD881108KA	>State of Wisconsin			E 90 16 28	327.1 $^{\circ}$			
Des. WHBMFM	60 dBu -	49.7 km	Undes. WECBAS	40 dBu -	76.7 km			-40.7X	126.4	
Undes. WHBMFM	40 dBu -	123.4 km	Des. WECBAS	60 dBu -	24.2 km			-61.9X	147.6	
USED	Duluth	213C3				46 47 21	283.7 $^{\circ}$	96.7	90.0	
	MN	>				92 6 51	102.8 $^{\circ}$	+6.7		
KDNI	Duluth	213C3	1.30	245		46 47 21	283.7 $^{\circ}$	96.7	90.0	
LIC	MN	BLD910618KE	>Northwestern College			92 6 51	102.8 $^{\circ}$	+6.7		
KBJRTV	SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7		
LIC	WI	BLCT2419	>KBJR LICENSE, INC.			92 6 51	102.8 $^{\circ}$			
Des. KBJRTV	47 dBu -	104.3 km	Undes. WECBAS	74.8 dBu -	10.3 km			-17.9*	114.6	
Des. KBJRTV	68 dBu -	54.8 km	Undes. WECBAS	71.8 dBu -	12.3 km			+29.6	67.1	

>> X CHANNEL NOT SUITABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 213A (90.5 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE			LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km	
WHSA	Brule	210C2	38.	168	46 27 59	255.5 $^{\circ}$	54.1			
LIC	WI	BLED1040	>State of Wisconsin			E 91 33 56	75.0 $^{\circ}$			
Des. WHSA	60 dBu -	51.8 km	Undes. WECBAS	100 dBu -	2.3 km	+0.0	54.1			
Undes. WHSA	100 dBu -	5.8 km	Des. WECBAS	60 dBu -	24.2 km	+24.1	30.0			
WHBMFM	Park Falls	212C2	17.5	222	45 56 43	146.6 $^{\circ}$	85.7			
LIC	WI	BLED881108KA	>State of Wisconsin			E 90 16 28	327.1 $^{\circ}$			
Des. WHBMFM	60 dBu -	49.7 km	Undes. WECBAS	54 dBu -	36.5 km	-0.5*	86.2			
Undes. WHBMFM	54 dBu -	73.3 km	Des. WECBAS	60 dBu -	24.2 km	-11.8*	97.5			
USED	Duluth	213C3			46 47 21	283.7 $^{\circ}$	96.7	143.0		
	MN	>			92 6 51	102.8 $^{\circ}$	-46.3#			
KDNI	Duluth	213C3	1.30	245	46 47 21	283.7 $^{\circ}$	96.7			
LIC	MN	BLED910618KE	>Northwestern College			92 6 51	102.8 $^{\circ}$			
Des. KDNI	60 dBu -	30.2 km	Undes. WECBAS	40 dBu -	76.7 km	-10.2*	106.9			
Undes. KDNI	40 dBu -	84.1 km	Des. WECBAS	60 dBu -	24.2 km	-11.6*	108.3			
KBJRTV	SUPERIOR	6TV-2	100	308	46 47 21	283.7 $^{\circ}$	96.7			
LIC	WI	BLCT2419	>KBJR LICENSE, INC.			92 6 51	102.8 $^{\circ}$			
Des. KBJRTV	47 dBu -	104.3 km	Undes. WECBAS	75.5 dBu -	9.9 km	-17.5*	114.2			
Des. KBJRTV	68 dBu -	54.8 km	Undes. WECBAS	72.7 dBu -	11.7 km	+30.2	66.5			

>> # SEVERE SIGNAL OVERLAP; CHANNEL MAY NOT BE PRACTICABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 214A (90.7 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			
WHBMFM		Park Falls	212C2	17.5	222		45 56 43	146.6 $^{\circ}$	85.7	62.0
LIC	WI	BLED881108KA>	State of Wisconsin	E			90 16 28	327.1 $^{\circ}$	+23.7	
USED		Duluth	213C3				46 47 21	283.7 $^{\circ}$	96.7	90.0
	MN	>					92 6 51	102.8 $^{\circ}$	+6.7	
KDNI		Duluth	213C3	1.30	245		46 47 21	283.7 $^{\circ}$	96.7	90.0
LIC	MN	BLED910618KE>	Northwestern College				92 6 51	102.8 $^{\circ}$	+6.7	
WTIP		Grand Marais	214C2	25.0	178		47 46 9	17.0 $^{\circ}$	137.3	
CP	MN	BPED961216MC>	Cook County Communit				90 20 49	197.4 $^{\circ}$		
Des. WTIP		60 dBu -	49.2 km	Undes. WECBAS	40 dBu -	76.7 km			+11.4	125.9
Undes. WTIP		40 dBu -	125.9 km	Des. WECBAS	60 dBu -	24.2 km			-12.9*	150.1
KUWS		Superior	217C1	83.	197		46 47 21	283.7 $^{\circ}$	96.7	76.0
LIC	WI	BLED910122KA>	Board of Regents of				92 6 51	102.8 $^{\circ}$	+20.7	
KBJRTV		SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.				92 6 51	102.8 $^{\circ}$		
Des. KBJRTV		47 dBu -	104.3 km	Undes. WECBAS	78.2 dBu -	8.4 km			-16.0*	112.7
Des. KBJRTV		68 dBu -	54.8 km	Undes. WECBAS	73.2 dBu -	11.3 km			+30.6	66.1

>> * SIGNAL OVERLAP; REDUCTION, RELOCATION OR DIRECTIONALITY MAY BE POSSIBLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 215A (90.9 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from-	$^{\circ}$ T	CLEAR-km	-km		
WHRM		Wausau	215C	77.0	341		44 55 14	153.1 $^{\circ}$	207.4	
LIC	WI	BMLED970521KH>	State of Wisconsin				89 41 31	334.0 $^{\circ}$		
Des. WHRM		60 dBu -	72.7 km	Undes. WECBAS	40 dBu -		76.7 km	+58.0	149.4	
Undes. WHRM		40 dBu -	170.4 km	Des. WECBAS	60 dBu -		24.2 km	+12.8	194.6	
WIRR		Virginia-Hibbin	215C2	21.0	168		47 29 46	305.7 $^{\circ}$	176.1	167.0
LIC	MN	BLED850827KC>	Minnesota Public Rad				92 47 5	124.3 $^{\circ}$	+9.1	
KUWS		Superior	217C1	83.	197		46 47 21	283.7 $^{\circ}$	96.7	82.0
LIC	WI	BLED910122KA>	Board of Regents of				92 6 51	102.8 $^{\circ}$	+14.7	
KBJRTV		SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.				92 6 51	102.8 $^{\circ}$		
Des. KBJRTV		47 dBu -	104.3 km	Undes. WECBAS	80.0 dBu -		7.6 km	-15.2*	111.9	
Des. KBJRTV		68 dBu -	54.8 km	Undes. WECBAS	73.7 dBu -		11.0 km	+30.9	65.8	

>> * SIGNAL OVERLAP; REDUCTION, RELOCATION OR DIRECTIONALITY MAY BE POSSIBLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 216A (91.1 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			
KNOWFM	Minneapolis-St.	216C	100.	400	45	3 44	226.6 $^{\circ}$	244.1	227.0	
LIC	MN	BMLD940420KA	>Minnesota Public Rad	93	8 21	45.0 $^{\circ}$	+17.1			
WGGLFM	Houghton	216C1	100.	262	47	2 8	72.6 $^{\circ}$	174.2		
LIC	MI	BLED937	>Minnesota Public Rad	88	41 43	254.2 $^{\circ}$				
Des. WGGLFM	60 dBu -	69.2 km	Undes. WECBAS	40 dBu -	76.7 km	+28.3	145.9			
Undes. WGGLFM	40 dBu -	168.5 km	Des. WECBAS	60 dBu -	24.2 km	-18.5*	192.7			
KUWS	Superior	217C1	83.	197	46	47 21	283.7 $^{\circ}$	96.7		
LIC	WI	BLED910122KA	>Board of Regents of	92	6 51	102.8 $^{\circ}$				
Des. KUWS	60 dBu -	61.9 km	Undes. WECBAS	54 dBu -	36.5 km	-1.7*	98.4			
Undes. KUWS	54 dBu -	91.4 km	Des. WECBAS	60 dBu -	24.2 km	-18.9*	115.6			
KBJRTV	SUPERIOR	6TV-2	100	308	46	47 21	283.7 $^{\circ}$	96.7		
LIC	WI	BLCT2419	>KBJR LICENSE, INC.	92	6 51	102.8 $^{\circ}$				
Des. KBJRTV	47 dBu -	104.3 km	Undes. WECBAS	81.0 dBu -	7.2 km	-14.8*	111.5			
Des. KBJRTV	68 dBu -	54.8 km	Undes. WECBAS	75.1 dBu -	10.1 km	+31.8	64.9			

>> * SIGNAL OVERLAP; REDUCTION, RELOCATION OR DIRECTIONALITY MAY BE POSSIBLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 217A (91.3 MHz) 3 KW ERF
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			

KUWS	Superior	217C1	83.	197	46 47 21	283.7 $^{\circ}$	96.7			
LIC	WI	BLED910122KA	>Board of Regents of			92 6 51	102.8 $^{\circ}$			
Des. KUWS	60 dBu -	61.9 km	Undes. WECBAS	40 dBu -	76.7 km			-41.9X	138.6	
Undes. KUWS	40 dBu -	156.7 km	Des. WECBAS	60 dBu -	24.2 km			-84.2X	180.9	

NEW	Odanah	220C3	12.0	100	46 31 35	105.3 $^{\circ}$	26.6			
APP	WI	BPED960626MC	>Lac Courte Oreilles			90 32 56	285.6 $^{\circ}$			
Des. NEW	60 dBu -	33.3 km	Undes. WECBAS	100 dBu -	2.3 km			-9.0*	35.6	
Undes. NEW	100 dBu -	3.3 km	Des. WECBAS	60 dBu -	24.2 km			-0.9*	27.5	

KBJRTV	SUPERIOR	6TV-2	100	308	46 47 21	283.7 $^{\circ}$	96.7			
LIC	WI	BLCT2419	>KBJR LICENSE, INC.			92 6 51	102.8 $^{\circ}$			
Des. KBJRTV	47 dBu -	104.3 km	Undes. WECBAS	82.0 dBu -	6.8 km			-14.4*	111.1	
Des. KBJRTV	68 dBu -	54.8 km	Undes. WECBAS	76.6 dBu -	9.3 km			+32.6	64.1	

>> X CHANNEL NOT SUITABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 218A (91.5 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			
KUWS		Superior	217C1	83.	197		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLED910122KA	Board of Regents of				92 6 51	102.8 $^{\circ}$		
Des. KUWS		60 dBu -	61.9 km	Undes. WECBAS	54 dBu -	36.5 km			-1.7*	98.4
Undes. KUWS		54 dBu -	91.4 km	Des. WECBAS	60 dBu -	24.2 km			-18.9*	115.6
VACA		Thunder Bay	218C				48 33 2	29.1 $^{\circ}$	251.2	241.5
	ON		>				89 13 25	210.3 $^{\circ}$	+9.7	
WXPR		Rhineland	219C1	100.	123		45 46 28	125.2 $^{\circ}$	155.4	134.0
LIC	WI	BLED911205KD	White Pine Community				89 14 54	306.4 $^{\circ}$	+21.4	
NEW		Odanah	220C3	12.0	100		46 31 35	105.3 $^{\circ}$	26.6	
APP	WI	BPED960626MC	Lac Courte Oreilles				90 32 56	285.6 $^{\circ}$		
Des. NEW		60 dBu -	33.3 km	Undes. WECBAS	80 dBu -	7.6 km			-14.3*	40.9
Undes. NEW		80 dBu -	10.8 km	Des. WECBAS	60 dBu -	24.2 km			-8.4*	35.0
KBJRTV		SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.				92 6 51	102.8 $^{\circ}$		
Des. KBJRTV		47 dBu -	104.3 km	Undes. WECBAS	85.5 dBu -	5.6 km			-13.2*	109.9
Des. KBJRTV		68 dBu -	54.8 km	Undes. WECBAS	80.0 dBu -	7.6 km			+34.3	62.4

>> * SIGNAL OVERLAP; REDUCTION, RELOCATION OR DIRECTIONALITY MAY BE POSSIBLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 219A (91.7 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility
Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			
KUWS		Superior	217C1	83.	197		46 47 21	283.7 $^{\circ}$	96.7	82.0
LIC	WI	BLED910122KA	>Board of Regents of	92	6 51		102.8 $^{\circ}$	+14.7		
WXPR		Rhineland	219C1	100.	123		45 46 28	125.2 $^{\circ}$	155.4	
LIC	WI	BLED911205KD	>White Pine Community	89	14 54		306.4 $^{\circ}$			
Des. WXPR		60 dBu -	54.7 km	Undes. WECBAS	40 dBu -	76.7 km		+24.0	131.4	
Undes. WXPR		40 dBu -	150.3 km	Des. WECBAS	60 dBu -	24.2 km		-19.1*	174.5	
KAXE		Grand Rapids	219C1	100.	140		47 15 17	291.8 $^{\circ}$	207.9	201.0
LIC	MN	BLED1533	>Northern Community R	93	26 3		109.9 $^{\circ}$	+6.9		
NEW		Odanah	220C3	12.0	100		46 31 35	105.3 $^{\circ}$	26.6	
APP	WI	BPED960626MC	>Lac Courte Oreilles	90	32 56		285.6 $^{\circ}$			
Des. NEW		60 dBu -	33.3 km	Undes. WECBAS	54 dBu -	36.5 km		-43.2#	69.8	
Undes. NEW		54 dBu -	51.7 km	Des. WECBAS	60 dBu -	24.2 km		-49.3#	75.9	
KBJRTV		SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.	92	6 51		102.8 $^{\circ}$			
Des. KBJRTV		47 dBu -	104.3 km	Undes. WECBAS	89.0 dBu -	4.6 km		-12.2*	108.9	
Des. KBJRTV		68 dBu -	54.8 km	Undes. WECBAS	83.6 dBu -	6.3 km		+35.6	61.1	

>> # SEVERE SIGNAL OVERLAP; CHANNEL MAY NOT BE PRACTICABLE <<

Evans Associates
210 S. Main Street
Thiensville, WI 53092
FM FREQUENCY ALLOCATION STUDY

Channel: 220A (91.9 MHz) 3 KW ERP
Coordinates: 46 - 35 - 24 90 - 53 - 0 100 M HAAT
Job Title: WECB - ASHLAND WI Φ indicates 73.215 Facility

Cl.A Spacing: 73.207

CALL	Φ	CITY	CH/CL-ZN	ERP-kw	HAAT-m	DA	LATITUDE	BEAR-to	DIST-km	REQ
STATUS	STATE	FCC#	APPLICANT/LICENSEE	LONGITUDE	-from- $^{\circ}$ T	CLEAR-km	-km			
KUWS		Superior	217C1	83.	197		46 47 21	283.7 $^{\circ}$	96.7	76.0
LIC	WI	BLED910122KA	Board of Regents of	92 6 51			102.8 $^{\circ}$	+20.7		
WXPR		Rhineland	219C1	100.	123		45 46 28	125.2 $^{\circ}$	155.4	134.0
LIC	WI	BLED911205KD	White Pine Community	89 14 54			306.4 $^{\circ}$	+21.4		
NEW		Odanah	220C3	12.0	100		46 31 35	105.3 $^{\circ}$	26.6	
APP	WI	BPED960626MC	Lac Courte Oreilles	90 32 56			285.6 $^{\circ}$			
Des. NEW		60 dBu -	33.3 km	Undes. WECBAS	40 dBu -	76.7 km		-83.4#	110.0	
Undes. NEW		40 dBu -	98.4 km	Des. WECBAS	60 dBu -	24.2 km		-96.0#	122.6	
WWAX		Hermantown	221A	0.78	276		46 47 13	283.5 $^{\circ}$	97.2	71.5
CP	MN	BPH950206MS	Harbor Broadcasting,	92 7 17			102.6 $^{\circ}$	+25.7		
WWAX		Hermantown	221C3	3.4	272		46 47 15	283.5 $^{\circ}$	97.3	88.5
CP	MN	BPH970604IC	Harbor Broadcasting,	92 7 21			102.6 $^{\circ}$	+8.8		
		Hermantown	221C3				46 49 30	284.3 $^{\circ}$	110.2	88.5
USED	MN	96-105	>				92 17 0	103.2 $^{\circ}$	+21.7	
KBJRTV		SUPERIOR	6TV-2	100	308		46 47 21	283.7 $^{\circ}$	96.7	
LIC	WI	BLCT2419	>KBJR LICENSE, INC.	92 6 51			102.8 $^{\circ}$			
Des. KBJRTV		47 dBu -	104.3 km	Undes. WECBAS	92.0 dBu -	3.8 km		-11.4*	108.1	
Des. KBJRTV		68 dBu -	54.8 km	Undes. WECBAS	85.2 dBu -	5.7 km		+36.2	60.5	

>> # SEVERE SIGNAL OVERLAP; CHANNEL MAY NOT BE PRACTICABLE <<